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NATURAL FOODS

ATTRACT

# WILD DUCKS, FISH

AND

# OTHER GAME

How to Get Your Share



PLANT NOW RESULTS THIS YEAR

SPRING PLANTING
- LIST -

# Wisconsin Aquatic Nurseries

P. O. Box 331 Oshkosh, Wis., U. S. A.

0,00

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# "All Together--Heave"

"This world has never known a country equal to ours in size, having greater natural beauty of conformation, diversity of scenery and wealth of animal and plant life.

- .... "Only as a day in the evolution of the world is 300 years, and after this length of time, we, today, are called upon to answer for our stewardship of plethora of riches and beauties. We have handled these natural wonders, this profusion of riches in a spirit of insane recklessness....
- ... "Today we are squarely facing the problem of reparation for we must make reparation or we must meet disaster. There is no question of whether we will or not, we must as a matter of protection....
- .... "We must save every brook and stream and lake. . . . Our waterfowl, our fish and other game.
- ... "We must save the natural resources which remain to us. . . . Now and not tomorrow.
- .... "If we desire comfort, food and beauty for ourselves and any sort of a heritage at all to bequeath to our children each of us must lend a hand. Those of us who see the vision and most keenly feel the need, must furnish the motive power for those less responsive. . . . . Do your part now.

## Foreword

A practical game restoration program. In the following pages of this booklet are given suggestions and helpful ideas derived thru years of experience by specialists on the development of attractive places for Waterfowl, Fish, Muskrats and Upland Game Birds. How to propagate natural food and cover plants thereby improving the Hunting on both land and waters and better the Fishing in ponds and streams.



Like the Indians of old who wandered over prairie, mountain and stream in search of food to the better hunting grounds, so do the wild life migrate in search of the kinds of foods they like. Similar to the hu-

man being, they like a change of diet, or a variety of foods, some species of wild life prefer certain foods more than others as the Mallard Duck searches for the Wild Rice so does the Canvas-back Duck scan the water for Wild Celery. Again in comparison, as the people populate the rich lands of Illinois near the great blue waters of Lake Michigan, against, the sandy deserts of Arizona. Why? Because in the land of prosperity they find contentment, plenty of food, shelter and enjoyment with the least exertion. It's the same with wild waterfowl, fish or game. Great numbers will congregate where they find a plenty of their favorite foods, good cover, greater protection and the easier feeding conditions.

### SUPPOSE

Just suppose you had a pasture with sufficient food growing to keep one hundred cattle throughout the season.

Suppose instead of one hundred you turned one thousand head in there what

would happen?

They would either starve or break out and wander into other fields where food is more plentiful.

# IT'S THE SAME WITH WILD DUCKS OR OTHER GAME

When the Wild Ducks stop on your waters or the game at your preserve and find little or no food, they go on their way in search of better feeding grounds, but if they find plenty of their natural foods growing there you can't drive them away.

To have the best of Hunting or Fishing all that is necessary is to start a growth of their favorite foods. Provide cover and give them a chance, they will do the rest. Soon you will have game or fish in abundance. One planting of these hardy perennials makes a permanently attractive place.

#### GOOD PLANTING MATERIALS IMPORTANT

Aquatic seeds, tubers and plants are of a perishable nature and must be carefully handled by persons experienced in growing, handling and planting them to insure the expected results. Poor materials are a waste of time and money, no matter how cheap they may be. We have learned of many failures in growing Wild Rice and other aquatic materials were due to the fact that the seeds and tubers planted had been improperly handled by some amateur seedsman or naturalist who did not know how to care for same. Worthless materials were acquired.

#### PIONEER AQUATIC NURSERYMEN

You can depend upon Wisconsin Aquatic Nursery with years of experience behind them and a reputation for Fair and Square dealings. Our materials are grown on properties from the far north to the extreme south to meet all conditions and climates. These seeds, tubers and plants are produced on twelve different properties located in various parts of the United States and Canada from the Gulf of Mexico to the interior of Canada and the Pacific Coast to Atlantic Ocean.

During our years of specializing in the development of more attractive feeding and breeding grounds for waterfowl, fish and game, we have studied the habits and haunts of this wild life. We have examined the contents of thousands of stomachs to determine their principal foods and studied the propagation of the natural foods of prime importance.

On the following pages it tells what, where, when and how to plant these natural foods. How to improve your hunting on waters or in the field. How to increase your sport with rod and reel.

#### PERCENTAGE OF AQUATIC PLANTS AND EACH EATEN BY THE BEST KNOWN VARIETIES OF WILD WATERFOWL

This list compiled by us from data obtained from bulletins published by the U. S. Department of Agriculture, Bureau of Biological Survey, Washington, combined with knowledge gained by the examination of the contents of stomachs of wild water-fowl, taken from different sections of U. S. and Canada.

MALLARD	PINTAIL	REDHEAD
10% of Food Animal	(Known as Sprig)	14% of Food Animal
90% of Food Vegetation		86% of Food Vegetation
	13% of Food Animal	
22% Sedges		30% Wild Celery
Cyperus	28% Pondweeds	17% Pondweeds
Rushes	Brownleaf	Sago Pond Plant
Burreed	Redhead Grass	Naias
Chufa	Sago Pond Plant	Redhead Grass
Wampee	Eel Grass	Brownleaf
14% Grasses	Widgeon Grass	Eel Grass
Wild Rice	Naias	Widgeon Grass
Wild Millet	22% Sedges	9% Wapato and Delta
9% Smartweeds	Bulrush	Duck Potato
Duck Wheat	Three Square Rush	5% Duckweeds
9% Pondweeds	Chufa	5% Muskgrass
Sago Pond Plant	Wampee	6% Grasses
Naias	11% Grasses	Wild Rice
Redhead Grass	Wild Rice	Wild Millet
Brownleaf	Wild Millet	6% Sedges
Eel Grass	7% Smartweeds	Cyperus
Widgeon Grass	Duck Wheat	Rushes
6% Duckweeds	5% Muskgrass	Burreed
Duck Meat	4% Delta and Wapato	Wampee
6% Coontail	Duck Potato	4% Waterlily
5% Wild Celery	3% Waterlily	Banana "
4% Hackberries	Banana "	renow
4% Wapato and Delta	Yellow "	Wokas
Duck Potatoes	Wokas	American Lotus
3% Acorns	American Lotus	1% Water Milfoil
4% Waterlily	1% Duckwee'ds	1% Coontail
Banana "	1% Milfoil	2% Unidentified and
Yellow "	1% Wild Celery	Miscellaneous
American Lotus	4% Unidentified and	
3% Water Milfoil	Miscellaneous	
1% Muskgrass		ł -
TEAT Plus Winged	BLACK DUCK	L CANVASRACK

TE	AL	Blu	e-Winged
			Animal
.73%	of I	Pood.	Vegetation
220%	Sod	mag.	

Cyperus Rushes Chufa Wampee' 16% Pondweeds Sago Pond Plant Naias Redhead Grass Brownleaf Eel Grass Widgeon Grass 14% Grasses

Wild Rice Wild Millet 9% Smartweeds Duck Wheat

4% Muskgrass 2% Waterlily Banana  $\mathbf{Yellow}$ Wokas American Lotus 1% Water Milfoil

Burreea

4% Unidentified and Miscellaneous

BLACK DUCK 24% of Food Animal 76% of Food Vegetation 33% Pondweeds

Sago Pond Plant Naias Redhead Grass Brownleaf Eel Grass Widgeòn Grass 11% Grasses Wild Rice

Wild Millet 9% Sedges Bulrush Burreed Cyperus 6% Smartweeds

Duck Wheat 5% Waterlily Banana Yellow Wokas

American Lotus 2% Coontail

4% Wapato and Delta Duck Potato 3% Wild Celery

1% Muskeress 2% Miscellaneous

CANVASBACK 8% of Food Animal

92% of Food Vegetation

38% Wild Celery 18% Pondweed Sago Pond Plant Naias Redhead Grass Brownleaf Eel Grass Widgeon Grass 8% Wapato and Delta

6% Waterlily Banana Yellow American Lotus

Duck Potato

6% Muskgrass 5% Grasses Wild Rice Wild Millet

5% Sedges Cyperus Rushes Wampee 1% Coontail

1% Water Milfoil 1% Ducky

f 3% Unidentified and Miscellaneous

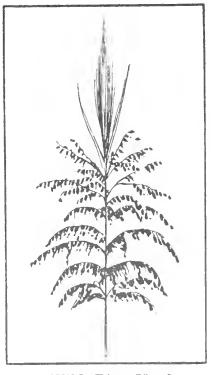
This is the average percentage of foods covering a large territory and wide range of growing conditions, which may vary in different localities where some plants grow more abundantly than others.





## WILD RICE

#### TO LURE THE MARSH DUCKS



Wild Rice Head

Mallards, Pintails, Blackducks, Teal, Widgeon and Canada Geese fly hundreds hundreds of miles to Wild Rice Marshes. During Fall they find the ripened grains in great abundance, also shelter and hiding places among If there are tall growth. several Wild Rice marshes in the vicinity, great numbers of these waterfowl will be seen passing from one marsh to the other. In the north only the freezing water will drive them out. Farther south they will stay these good feeding grounds throughout the entire winter. Wild Rice is also very important as a

Muskrat food.

A field of Wild Rice once established makes a permanent feeding grounds, for Wild Rice reseeds itself from year to year.

#### WHERE TO PLANT

The best places for planting wild rice are in fresh water streams, sloughs, marshy lakes or ponds, having an outlet, soft mud bottom and waters from 6 inches to  $3\frac{1}{2}$  feet in depth. In sunny sheltered bays or coves on larger lakes, streams or rivers where it is protected from waves or strong currents are excellent places to plant. If planted upstream, parts of the plants and some of the seed produced, will be carried downstream each year, and become established in suitable places all along the waterway.

Near the seacoast wild rice will thrive in streams where the waters are not salty to taste and where the tide is not over four feet. Tame rice fields that depend on tides for their water supply are usually very good places for growing wild rice, or in old abandoned rice fields where there is a change of water.

Wild Rice is easy to grow. It does very well in Canada and the United States. It has proven a marked success in waters where conditions were favorable. A free change of fresh water is the main requirement, stagnant waters are injurious.

#### PLACES NOT SUITABLE

Years of experience has taught us that Wild Rice does not do well in landlocked lakes or ponds (those having no outlet) waters salty to taste, strongly alkaline or on white marl bottom soil. Such places as along the Mississippi River and its tributaries where the water rises and stays ten feet or more above the low water mark for several weeks during spring are also unsatisfactory. Wild Rice will be drowned out by such a condition. If conditions such

as described exist in your waters then we suggest the planting of other duck foods which are suited to such places, find them described on the following pages.

#### WHEN TO PLANT

Wild Rice Seed may be planted at any time while the waters are free from ice. We suggest planting as early as possible to give full advantage of the growing season so that the expected results may be obtained, fully matured plants, lots of feed and plenty of ducks. Good seed is important, we supply only the best, hardy Giant Wild Rice Seed, guaranteed to grow (see guarantee on page 28).



A Wild Rice Bed 45 Days After Planting

#### HOW TO PLANT

Wild Rice seed is very easily planted, all that is necessary is to broadcast the seed on the waters ranging in depth from 6 inches to  $3\frac{1}{2}$  feet. Plant where there is a fairly rich bottom soil, scattering about one handful of seed to each two or three square yards. The seed will immediately sink to bottom and within a short time will bury itself in the bottom soil. We urge you to plant early as possible for in late spring the seed is inclined to sprout which makes it necessary to mix the seed with mud in order to sink it to bottom. Sprouted seeds will float on the waters and is more bothersome to plant.

Our supply of wild rice seed is very limited, therefore, we suggest that you place your order early and be sure of your supply. We will store your seed until you wish shipment. Complete planting instructions are sent with each order. Fifty

pounds will plant an acre.

Only 70c per lb., in lots of 10 pounds or more.

Smaller quantities, 75c per pound.

F. O. B. Oshkosh—less special discount.

Wisconsin Aquatic Nurseries Oshkosh, Wis.

West Barrington, R. I. April 3, 1931.

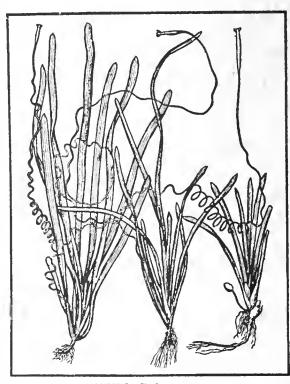
Gentlemen:
Enclosed you will find check which will pay for Rice seed I received. An experienced Hunter and Game Farmer helped me and he said, "It is the best I've seen from three orders I have received from different concerns I have dealed with." I also think it is very fine seed and I am sure of good results.

Yours for conservation, Signed: WILLIS E. BLOUNT,

### WILD CELERY

BRINGS THE DUCKS

Canvasbacks, Red-heads, Bluebills, Maland Blacks darken the sky over the wild celery beds. A few years ago it was no trick at all to go out and get the limit of ducks, neither is it today where the Wild Celery beds abound. But, many of the Wild vast Celery beds of former years disappeared; drainage, pollution and other causes have destroyed many and many an acre of them. We must util-



Wild Celery

ize every lake, pond and stream to prolong this sport, reestablish those Wild Celery beds.

You will find no better way to increase your enjoyment during your hours of recreation than shooting these wild ducks. Thousands of them can be attracted to your local waters by establishing a growth of Wild Celery.

All parts of the plant are eaten by the Wild Ducks, but the tender winterbuds and rootstocks are relished most. Once the Wild Celery is established in your waters it will grow there permanently. There is no danger of the ducks destroying the growth for there are many tubers which break off remaining in the mud and many plants never molested which will produce the following year, it also reseeds itself.

#### IMPORTANT FOR FISH

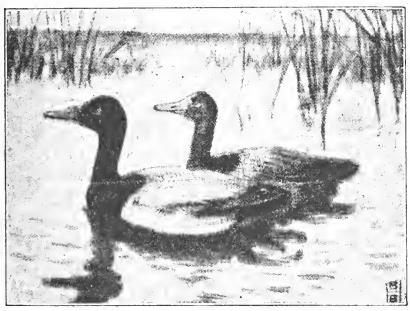
Wild Celery being a submerged water plant is also important as a food and cover plant for fish. The plants support countless numbers of minute insect and animal life which fish depend upon for food. Fish also eat portions of the plants themselves. A bed of Wild Celery will keep your waters pure and clear and well oxygenated, which is important for fish life. The plants provide shelter and hiding places for young fish, where they can escape from their enemies, assuring many more of them reaching maturity. Wild Celery is an excellent winter food for Muskrats.

#### WHAT AND WHEN TO PLANT

The Wild Celery propagates in three ways, by seed, runners and winterbuds, a sort of tuber. It is by planting these winterbuds (tubers) that one can establish a quick and very good growth of Wild Celery in their waters. Results may be noticed by the following fall. Tubers may be planted in spring, summer or fall.

#### WHERE TO PLANT

Wild Celery grows best in waters from 2 to 10 feet in depth preferably on a mud bottom, although it will grow on sandy leam or clay. It requires fairly fresh waters, that is waters which are not salty to taste or alkaline. This plant does not grow well in landlock lakes or ponds.



Canvasback

#### HOW TO PLANT

Get a quantity of clay and moisten until it becomes about the consistency of putty. Then take a handful of clay and mould it into a ball about the size of a tennis ball. Break this clay ball in two and place 2 of the Wild Celery tubers between the halves and press firmly together. After a quantity has been made take them to the desired planting place and drop one by one into the waters about 3 to 6 feet apart. We furnish more complete planting instructions with each order.

> One Thousand Tubers plant one Acre. Price \$14, per \$1,000; \$2 per 100 Tubers, Less special discount.

Wisconsin Aquatic Nurseries Oshkosh, Wis.

Oct. 8, 1929.

Oshkosh, Wis.

Gentlemen: Enclosed please find check for Wild Duck Food.

Just writing a few lines to let you know about the results obtained from your Wild Rice and Wild Celery I purchased from you last fall. Up to the time it was seeded there was never a duck on the pond to my knowledge. About a week ago there were about thirty ducks on it of which we killed five and I believe that the Wild Duck Food sure was what attracted them. I am going to seed another pond this fall.

Signed: Sincerely yours, EMIL GILLHAM,

R. 2, Box 93, Fair Grove, Mo.



Redhead [Page 7]

### SAGO PONDWEED

#### BEST ALL ROUND DUCK FOOD

Early in the season the Sago Pondweed will attract Mallards and Teal, later the Canvasbacks and other divers. It's the most important of water plants for both wild ducks and fish. All species of wild ducks feed upon its roots, tubers and seeds which are produced in abundance. In fact all parts of the plant are eaten by the wild ducks, but they cannot destroy the growth for it has a very strong root system which makes a net work thru the bottom soils. Many roots and tubers remain unmolested to produce a growth the following year. One planting will make a permanent growth. Sago Pondweed produces more food for the Wild Ducks than any other aquatic plant. It is also an important food plant for the Muskrats.

#### EXCELLENT FOR FISH

Like the Wild Celery the Sago Pondweed also provides food, cover and protection for the fish. It purifies and clarifies the waters, takes up the poisonous gases and puts forth oxygen into the waters. Various kinds of insect life deposit their larva on these plants which is food for the small fish. The Sago Pondweed plants shade and cool the under waters and will not only improve the fishing but also the quality of the fish.

#### WHAT AND WHEN TO PLANT

The tubers of Sago Pondweed can be planted during spring, summer or fall. They will produce some food for the Wild Ducks the following fall. These plants have a very strong root system and are indestructible by Carp.

#### WHERE TO PLANT

These plants are very hardy and will grow in almost any waters except salt waters. On practically every kind of bottom soil except gravel. They are submerged plants and do best in waters from 2 to 6 feet in depth, altho Sago Pondweed will grow in water from 1 to 10 feet in depth. When possible plant where there is some mud.

#### HOW TO PLANT

The tubers are planted in the same manner as Wild Celery tubers (see how to plant on page 7.) Complete planting instructions are furnished.

One Thousand Tubers will plant an Acre.

Price \$20 per 1,000 tubers, \$3 per 100,

#### Less special discount.

May 6, 1926.

Wisconsin Aquatic Nurseries Oshkosh, Wis. Dear Sirs: Enclosed plea

Dear Sirs: Enclosed please find my check for \$21.00 for which you will please send me at once 1000 Wapato Duck Potatoes. You shipped me some last year and they did very well.

On February 10 you sent me 500 Sago Pondweed Tubers

which are coming fine.

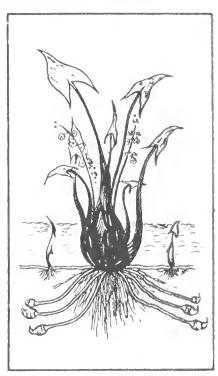
Trusting that you will express the above at once, I am Sincerely yours,

CARL G. LIEBE, 545 E. 14th St., N., Portland, Oregon.

# Wapato Duck Potato

RAPID GROWING DUCK COAXER

The Wapato Duck Potato is a very good all around Wild Duck Food. Canada Geese and Swan are also very fond of this plant. The species of Wild Ducks which will feed upon Wapato depends largely upon the water conditions under which it grows. If the waters remain nearly the same level the year around, Mallards and other shallow water ducks will feed upon the tender shoots, tubers and seeds which it produces. In places where there is an overflow or the water deepens during fall and winter, Canvasbacks and other divers will feed upon Wapato.



Duck Potato

As a Muskrat food the Wapato is excellent.

#### WHAT AND WHEN TO PLANT

Wapato propagates largely by tubers which may be planted during spring or fall. Tubers planted this year will produce fully matured plants the following fall.

#### WHERE TO PLANT

This plant is very hardy and will grow well in most any inland waters excepting those which are very strong of alkali or salts. It does the best in a fairly rich soil on damp lowlands, mud flats or in water from 1 inch to 1 foot in depth.

#### HOW TO PLANT

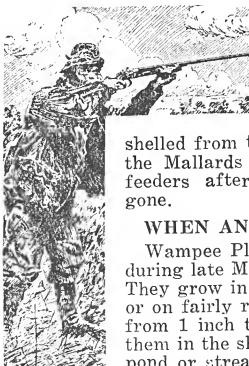


Sago Pondweed (see page 8)

The tubers of the Wapato Duck Potato are very easily planted, all that is necessary is to step into your boots or waders and take a quantity of tubers to the place you wish to plant. Then push each tuber about one or two inches deep into the bottom soil, planting about three feet More apart. complete planting instructions sent with order.

One thousand tubers plant one acre.
Only \$14 per 1,000 Tubers; \$2.00 per 100,
Less special discount.

# Wampee---Duck Corn



A good Wild Duck Coaxer. Marsh ducks are particularly fond of the Wampee Seeds which shell off the stock in late fall like of kernels

It will help hold shelled from the cob. the Mallards and other shallow water feeders after many other foods

### WHEN AND WHERE TO PLANT

Wampee Plants may be transplanted during late May and the month of June. They grow in wet marshy boggy places or on fairly rich mud bottom in waters from 1 inch to 1 foot in depth. them in the shallow waters of any lake, pond or stream. Seed may be planted almost any time of the year.

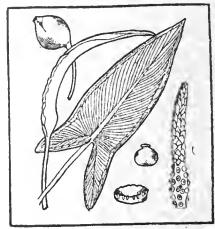
#### HOW TO PLANT

Just step into your rubber boots and take a spade or spading fork and a quantity of plants to the place you intend planting. With the spade or fork lift a bit of soil, then place the roots of the plant into the opening after which replace the soil and step it in firmly with your boot.

Wanipee Seed may be planted by mixing same with a good sticky clay and scattering small parts of the mixture here and there in the shallow waters. If it is your desire to plant this seed in a wet marshy place, simply make a hole with a stick, drop

several seeds and step the soil together closing the We will furnish complete planting instructions Five hundred with order. plants or ten pounds seed will plant an Acre.

Price \$10 per 100 plants, \$70 per 1000 plants, \$0.80 per pound seed, Less special discount.



Wampee

Laurel Oil & Fertilizer Company Laurel, Miss.

Wisconsin Aquatic Nurseries Box 331, Oshkosh, Wis.

October 12, 1931.

Gentlemen: About eight weeks ago I bought quite a bit of seed, etc., om you gentlemen. Among this shipment was some of your from you gentlemen.

Muskgrass seed spores. All of the seeds furnished are quite satisfactory except the Muskgrass seems to be spreading awfully fast; in fact I spreading entirely too much. As explained to you 11 1Sin my first letter, our Lake has about 120 acres of open water and I wondered if this Muskgrass will spread over the entire lake?

Will it lie down in the dead winter? How would you suggest that it be controlled?

For your information, we have quite a few ducks already coming in and they seem very fond of this Muskgrass as well as the Wild Rice, Wild Celery, Sago Pondweed, etc. Very truly yours, P.

GRANBERRY, Box 926, Laurel, Miss.



## Wild Duck Millet

#### ATTRACTS THE SHALLOW WATER DUCKS

Also known as Goose Grass. Ranks almost as high as Wild Rice as a good Duck Coaxer in localities where Wild Rice cannot be grown. Wild Duck Millet grows to be 4 to 6 feet high and makes very good blinds as well as producing a large seed head with an abundance of food for the Wild Ducks.

### **Smartweed**

A popular food with the Mallards. On the low-lands where Smartweed grows, from Canada to the Gulf, Mallards will surely stop during their fall flight. They are particularly fond of feeding upon Smartweed



Wild Duck Millet Seed Head

of feeding upon Smartweed in places which overflow in fall, where they may dibble the seeds from the mud in shallow waters.

#### IMPORTANT FOR QUAIL

Both the Wild Millet and Smartweed are considered as important food plants for upland game birds. They produce an abundance of seeds which Quail and Grouse are very fond of. In studying the habits of the game birds we find that twice daily they go to the nearby ponds or streams for water and like to linger there and feed.

#### WHAT AND WHEN TO PLANT

Seeds of both Wild Duck Millet and Smartweed may be planted during spring, summer or fall.

#### WHERE TO PLANT

The Wild Duck Millet and Smartweed grow under similar conditions on damp lowlands and mud flats. They have proven very good along the Illinois and Mississippi Rivers, also on old Rice fields and in such places as can be flooded during the duck season. They do best on a fairly rich soil.

#### HOW TO PLANT

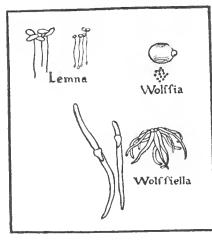
It is well to break the soil where possible. One may use a drag, disc or grub hoe. Then sow the seed broadcast, after which drag or rake the planted area so as to cover the seed.

Forty pounds will plant one acre.

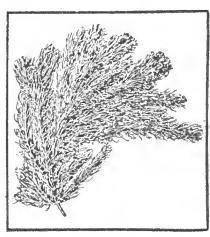
Wild Duck Millet or Smartweed Seed Price \$15 per 100 lbs.; per pound, 20c.

Less special discount.

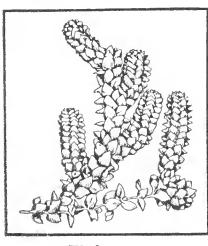
### **Ducksmeat or Duckweed**



**Ducksmeat** 



Coontail



Elodea

All kinds of Wild Ducks feed upon the Duckweeds. The shallow water feeders make up a larger percentage of their food of this plant than the divers. because it grows largely in shallow waters. It is also important for fish.

# SURFACE FLOATING DUCKWEEDS

This is a very small plant (less than ¼ inch in size) which floats in great clusters upon the surface of the waters.

#### SUBMERGED FLOATING DUCKWEEDS

Another very small plant (less than ¼ inch in size) which floats in great masses, submerged near the bottom.

#### COONTAIL PLANTS

Seeds of the Coontail Plant are eaten by many species of Wild Ducks, occasionally they will feed upon the foliage. This plant provides both food and cover for fish.

#### ELODEA

The Elodea is of value as a food plant for marsh ducks. It has a greater value as a food and cover plant for fish. It is also a very good water purifier.

### WHAT, WHEN AND WHERE TO PLANT

All of the above plants grow under very similar conditions and are transplanted in the same manner during the months from April to October. These plants should be transplanted into fresh waters from 1 to 6 feet in depth on any kind of bottom in ponds or quiet sheltered bays and coves. The above plants are indestructible by Carp.

#### HOW TO PLANT

Just drop a handful of plants into the waters about every two feet.

Five bushels of plants to the acre.

Price \$4.00 per bushel plants. Less special discount.

Wis. Aquatic Nurseries,

May 13, 1929.

Oshkosh, Wis.

Gentlemen:
You may be interested that the planting we made of your materials last year was very successful.

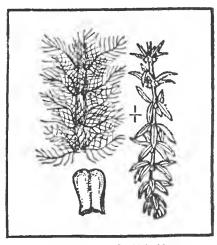
Thanking you for your very courteous services, I am Yours truly,

ROBERT OGDEN.

[Page 12]

### Water Milfoil

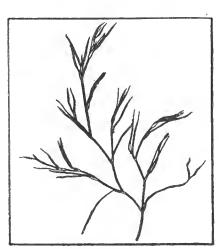
An excellent plant for fish ponds. Water Milfoil supports numerous kinds of animal life which is food for the fish. It furnishes cover, also shades the under water and purifies it, thereby, keeping it cool and fresh during the hot summer. It is also of value as a waterfowl food.



Water Milfoil

## Widgeon Grass

Redheads, bluebills and Canvasbacks feed upon the roots, seeds and leaves of Widgeon Grass. It is considered the best Wild Duck Attraction for brackish waters. Mallards and other marsh ducks feed upon Widgeon Grass during low tide where it grows in bays and streams which are affected by tides.



Widgeon

#### WHEN AND WHERE TO PLANT

Water Milfoil plants are transplanted from April to October. It produces most satisfactorily in fresh waters from 3 to 9 feet in depth on a mud bottom in slow running streams or sheltered bays and coves.

Widgeon Grass plants are also transplanted during spring and summer and is a brackish water plant. It grows in salt water but never in that of full ocean strength. It thrives in rivers affected by ocean tides. This plant grows in waters from 1 to 10 feet in depth on a mud bottom.

#### HOW TO PLANT

Both the Water Milfoil and Widgeon Grass plants are planted by simply pushing the roots of the plant down into the mud with an oar or a paddle in two to six feet of water.

Three bushels of plants to the acre.

Price Water Milfoil Plants, \$5.00 per Bushel. \$4.00 per bu. in 10 bu. lots.

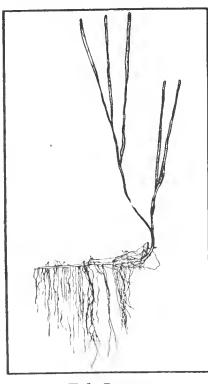
Widgeon Grass Plants, \$10.00 per bu. \$8.00 per bu. in 10 bu. lots. Less special discount.

Wisconsin Aquatic Nurseries Oshkosh, Wis.

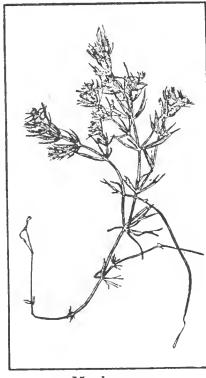
Dear Sirs:

Enclosed please find check for Wild Rice Seed. I want to thank you for your promptness in getting your orders out and for the extra seeds and plants that you sent with my order of the 17th of April. Your firm surely lives up to their guarantee about making good any order that is not satisfactory and in the future I can't speak too highly of your fair and square dealings.

Yours very truly, Signed: W. F. STEINBECK, 1963 N. 5th St., Kansas City, Kansas



**Eel Grass** 



Muskgrass

# Fel Grass SALT WATER

The Eel Grass is the only important Wild Duck food plant which we supply that will grow in waters which are salty. All kinds of Wild Ducks will feed upon the seeds and foliage.

# WHEN, WHERE AND HOW TO PLANT

Plants of the Eel Grass are transplanted during June in quiet, shallow, salt waters covered at low tide. In transplanting these simply set them out in shallow waters during low tide by making a hole in the soil and placing the roots in it; then replace the soil pressing it firmly about the plant.

Price \$15 per bushel.

## Muskgrass

A few bushels of Muskgrass planted during late summer or fall will produce an excellent feeding place for the Wild Ducks the following season. They feed upon the foliage as well as the many small tubers which are produced. Both Marsh Ducks and Diving Muskupon feed One will also increase the sport with rod and reel, for Muskgrass is a valuable food and cover plant for fish.

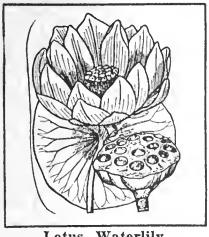
Broadcast bits of the plants containing (oogonia) seed spores upon the waters anytime from June to December. Muskgrass grows in fresh or alkaline waters from 2 to 12 feet in depth on almost any kind of bottom. One requirement is that the waters contain some lime which will be indicated by shells or shell bearing creatures such as snails or clams in the waters. Four Bushels will plant an Acre.

aters. Four business will plant an 12010.

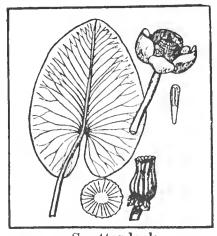
Muskgrass Seed Spores \$4.00 per bu. Less special discount.



### OSHKOSH, WISĆONSIN



Lotus Waterlily



Spatterdock

## WATERILIBS

#### **SPATTERDOCK**

Also known as Yellow Waterlily make a fine Wild Duck attraction when planted in addition to other natural foods. Marsh Ducks feed upon the seeds in early fall.

Spatterdock is considered an excellent winter food for the Muskrat as it grows in waters at a depth

beyond the freezing point.

#### WHITE WATERLILY

An excellent food and cover plant for fish. White Waterlilies are very ornamental and will add to the beauty of your waters.

#### AMERICAN LOTUS

Has some value as a food and cover plant for fish and is also of some value as a wild waterfowl food. American Lotus is very ornamental having large cream colored flowers.

#### WHEN AND WHERE TO PLANT

Tubers or rootstocks of Spatterdock and White Waterlilies are planted from spring to fall. Seed of the American Lotus may be planted at any time. All waterlilies do best on a mud bottom in waters from 1 to 4 feet in depth.

#### HOW TO PLANT

Tubers and rootstocks are very easily planted. Cut a fairly straight stick about 5 feet in length which is between 1 and 2 inches in thickness. Whittle off one side at end to make a flat surface, then drive two nails into this flat surface on a slant to make a sort of crotch. Place a tuber into this crotch and push it into the mud about 3 or 4 inches. Plant these about 3 feet apart. These tubers are usually planted from a boat.

Seven hundred fifty tubers will plant one acre. American Lotus seed is simply broadcast using 10 lbs. to plant an acre

#### PRICES

White Waterlily Tubers \$8.00 per 100 Spatterdock Roots \$12 per 100 American Lotus Waterlily Seed \$1 per pound.

Naias Plants with Seed -----\$7.00 per bu. Less special discount.

The Naias is an important Wild Duck Food. grows in waters ranging in depth from 1 ft. to 5 ft. on a sand, clay or mud bottom in fresh waters. Should be planted during August to October.

[Page 15]



## Deep Water Duck Potato

(Sagittaria Rigida)

Another favorite food for all kinds of Wild Ducks. The diving ducks feed on it during fall in the deeper waters. Shoal water ducks eat it if the waters are low during fall. It is a rapid grower and produces abundantly of food. It has numerous acorn like tubers on its roots just beneath the bottom soils which the Wild Ducks glut themselves with. One can hardly drive the ducks away from a good bed of Deep Water Duck Potatoes and if they do leave it is only temporary, they soon return for more.

Plant the tubers during spring or summer in from one to five feet of water. A soft mud bottom is best and will produce a luxuriant growth next year. They are very hardy and will thrive in any fresh water lake, pond or stream. Changing water levels do not affect the growth of these Duck Potato plants.

In planting deep water duck potatoes just fasten the tuber to an eight penny nail with a small rubber band and drop them in the waters in the desired place. One thousand tubers plants one acre.

Deep Water Duck Potato tubers \$15.00 per 1000 " 2.00 per 100

Less Special Discount

### Water Cress

The Water Cress is used largely by breeders of Wild Ducks, who consider it very valuable as a food plant for their Duck Farms. It grows very rapidly.

#### WHEN, WHERE AND HOW TO PLANT

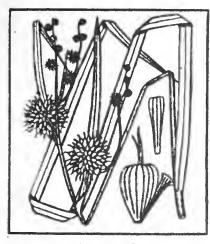
Water Cress may be started either by planting seed or transplanting plants from April to July. It grows in cool waters, usually where there is a slight current, like in springs, brooks, small streams or shallow ponds. In transplanting plants simply set them out by hand in shallow waters 1 foot or less in depth. Seed is best planted by mixing it with mud and dropping bits of the mixture here and there in the waters. Three pounds of seed for one acre.

Water Cress Seed \$7.50 per pound.

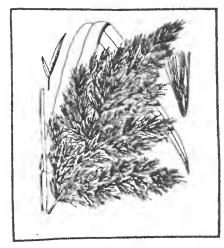
# Sweet Flag-Water Iris

Both the Sweet Flag and Water Iris are important food and cover plants for Muskrats. They are also important cover for waterfowl and provide excellent nesting places. Roots may be planted during spring in wet low lands or marshy places.

1000 Roots \$30.00; 100 Roots \$4.00



Burreed



Reedgrass

## **COVER PLANTS**

#### BURREED

Is a valuable plant to have growing in your marsh. Seeds which resemble kernels of corn, shell from the large prickly burr during fall and are eagerly eaten by Marsh Ducks.

Burreed grows from 3 to 5 feet in height and dur-

Burreed grows from 3 to 5 feet in height and during early summer makes ideal nesting places for the Wild Ducks, also provides blinds for the hunter during fall.

#### CATTAILS

These plants grow to be 5 to 7 feet high and make good blinds. Cattail plants rank very high as a food, also cover plant for the Muskrats.

#### REEDGRASS

Makes the very best blinds for hunters. It grows from 5 to 8 feet with numerous long, narrow leaves. During late fall in the North, Wild Ducks will seek shelter from the cold winds among the Reedgrass. It is also of importance for the Muskrat.

#### BULRUSH

The Bulrush will grow in waters having very sandy bottoms where other vegetation cannot be grown. It provides excellent blinds for the hunter and good shelter for the Ducks.

#### WHEN AND WHERE TO PLANT

The Burreed, Cattail and Reedgrass grow best on a fairly rich soil either on wet lowlands or in waters from 1 to 18 inches in depth. Bulrush will grow on any kind of bottom except stone, in waters from 1 inch to 3 feet in depth. The roots of these plants should be transplanted during May and June.

#### HOW TO PLANT

Slip on your boots, take a spade or digging shovel and a quantity of roots to the place you are going to plant. In the shallow waters about three feet apart, take up a shovel full of soil and place 1 root in each hole, then replace the soil and press it firmly into place with your boot. One Thousand Roots will plant one Acre.

#### PRICE

\$4.00 per 100 Roots; \$30.00 per 1000 Roots BURREED SEED \$0.75 PER POUND. Less special discount.

## For Wild Ducks, Quail or Grouse

#### DUCK WHEAT

Or Goose Buckwheat is a very rapid growing plant. It produces an abundance of seed which Wild Ducks and Geese are fond of. Most favorable results are obtained when seed is planted in June or July on places which go dry or can be drained during summer and flooded during the duck season.

#### MILO MAIZE

This plant is used in the same manner as Duck Wheat and is planted about the same time under similar conditions. Both Quail and Grouse are very fond of the Wild Buckwheat and Milo Maize, plant a little space here and there in the waste places.

#### HOW TO PLANT

Break the soil, with a plow, disc or drag, then broadcast the seed using about 50 pounds to the acre and drag or rake the planted area to cover seed.

Price \$15 per 100 pounds.



Chufa

## Chufa, Nutgrass

A very good all around duck food for places which are very dry in summer and flood during the duck season. Chufa does particularly well in the South and may be planted anytime from March to July. One bushel of the nut-like tubers plant an acre. planting break the soil, then broadcast the tubers and rake or drag planted area to cover tubers.

Chufa Tubers \$13 per bu. -45 lbs.

Less special discount.

Montgomery, Alabama, Dec. 1, 1927.

Wisconsin Aquatic Nurseries Oshkosh, Wisconsin Dear Sir:

Dear Sir:

Your letter has just reached me. Would have been glad to meet you while in Montgomery. Would have been delighted to have had you inspect our lake. The greatest trouble with planting anything in this lake is the various growth. The soil is very rich, grows all kinds of moss and other water plants. The moss is the great trouble, it is so dense it is hard to get any kind of seed down to the soil. However our WILD RICE grew fine, our SPATTERDOCK and LOTUS WATER LILY are well set, made a fine crop this year. Atten.: Mr. Coon:

To show what NATURAL FOOD will do, we have ten Wild Ducks now to every one last year. If we can just get some other plants well set, we will have the greatest duck lake in the country.

We have so many ducks now I believe they would destroy the tubers if we were to plant more. I know they would get most of them. How about spring planting? How late can Muskgrass and Sago Pond Weed be planted successfully? Will give you an order for some of both at the right time.

Very truly yours,

(Signed) J. F. YARBROUGH.

## TREES, SHRUBS & VINES

# IMPORTANT FOR UPLAND GAME BIRDS AND ANIMALS



#### TREES

Hackberry $(1-1\frac{1}{2} \text{ inch base})_{}$	\$12.00	each
Hawthorn (3-5 feet high)	2.80	,,
Wild Crab (3-4 feet high)	2.00	"
Mulberry (2-3 feet high)	7.50	,,
English Oak (6-8 feet high)	8.00	"
Pussy Willow (4-5 feet high)	1.20	,,
Red Cedar (2-3 feet high)	8.00	"
Scotch Pine (2-3 feet high)	5.00	,,
Douglas Fir (2-3 feet high)	13.00	,,

#### SHRUBS

Hazelnut (18-24 inches)	1.00	,,
Honeysuckle (3-4 feet)	1.20	,,
Chokecherry (3-4 feet)	1.60	,,
Smooth Sumac (3-4 feet)	1.00	,,
Mountain Current (18-24 inches)	1.10	,,
Wild Rose (18-24 inches)	1.50	,,
Swamp Rose (2-3 feet)	1.30	"
American Elder (3-4 feet)	1.40	,,
Buffalo Berry (2-3 feet)	1.20	,,
Snow Berry (2-3 feet)	1.00	,,
Nanny Berry (3-4 feet)	1.60	,,

#### VINES

Bittersweet (2 years)	1.00	,,
Wild Grape (2 years)	1.00	
Raspberry Plants	2.50	doz.

NOTE—Trees, Shrubs and Vines listed above are important as food producers and cover plants for Upland Game Birds and Animals. Prices are F. O. B. Nurseries. No orders accepted for any quantity or assortment amounting to less than \$10.00.

### WATERS ALONE WON'T BRING DUCKS

Would you like to have duck hunting like the old-timers tell about? Would you like to have hundreds and thousands of waterfowl come to your

favorite waters every fall?

If you do, restore what brought the ducks in the good ol' days—feeding grounds. Waters alone won't bring ducks. But natural aquatic foods will. Ducks are gluttonous feeders, and will fly hundreds of miles to find abundant food. Wild ducks cannot live upon waters without food and therefore migrate on to the places where they find plenty of the kind of food they like.

In waters where their natural food does not grow now, it can very easily be planted and the waters made attractive to the wild waterfowl. There are important food plants for these wild waterfowl which will grow under almost every water condition

that exists.

The future of your duck hunting rests in your own hands. You will provide food and nature will provide the ducks. There are plenty of waterfowl in the country, but they are found in great numbers only where there is sufficient vegetation for them to feed.

Now is the proper time to plant aquatic foods. By next Fall the plants will be full grown. Year after year they will reseed themselves and remain a permanent attraction in your waters.

### Have You Heard of the Buffalo, the Pigeon and Last the Heath Hen

Years ago great numbers of Buffalo used to roam the western prairie; yes, thousands of them. They were a wild ox (American bison), commonly known as buffalo. Today they are gone, civilization has crowded them out. A few remain in the various zoos.

Not many years ago the Passenger Pigeon was here in countless numbers. Wonderfully prolific, having the forest of the north as its breeding ground, traveling hundreds of miles in search of food, it was here today and elsewhere tomorrow. Today they are gone; the last Passenger Pigeon died in 1914 in the Cincinnati zoo.

Now the Heath Hen, their numbers have also dwindled away. In 1916 there were estimated about 2000 Heath Hens, in 1928 there remained about three. Today they are also gone.

#### WILL THE WILD DUCK GO?

What is happening to our supply of Migratory Waterfowl? Officials have taken drastic measures to save our Wild Duck and other Game. Drainage, drought and other causes have reduced the shallow water area, taking away their feeding and breeding grounds.

Lately on the few remaining attractive places which abound in natural foods larger numbers of Wild Ducks congregated than for many years.

Do your bit toward conservation of the Wild Duck, help to prolong this great outdoor sport. Plant that pond, river or bay with natural aquatic food plants, increase the range of the waterfowl and you will be helping to increase their numbers and at the same time insure some real sport for yourself and sportsmen associates.

#### WILD DUCKS MUST EAT

Did the wild ducks and geese darken the sky over your local waters or at the preserve last fall? If not, there is some reason, undoubtedly the very reason is that there is not enough natural food growing there to attract them.

Wild ducks cannot live upon waters without food and therefore migrate on to the places where they find plenty of the kinds of food they like. In waters where their natural food does not grow now, it can very easily be planted and the waters made attractive to the wild waterfowl.

There are undoubtedly several food plants adapted to your water conditions and it will be advantageous to have a variety growing in your waters. Different kinds of waterfowl are fond of different kinds of food. Different plants produce food in various forms at different times throughout the season. Therefore, a variety of foods attract a larger number of ducks and holds them for a longer interval.

#### FEDERAL REGULATIONS

All evidence indicates that the following migratory waterfowl regulations will continue throughout 1938 and 1939, but there is a possibility that shooting periods in various states will be re-adjusted to the better advantage of the sportsmen. Owing to the more favorable 1937 climatic conditions inundating many ponds in the breeding section, it is estimated by authorities that our supply of Wild Ducks have actually started to increase, which may soon sportsmen a 45 DAY SHOOTING SEASON, possibly this year. Much credit must be given to the Bureau of Biological Survey for their excellent work, also the Emergency Conservation Works, State Fish & Game Departments and individuals, Sportsmen and Clubs, for their endeavor to create more attractive feeding, breeding and resting grounds.

The regulations prohibit use of live decoys, baited water or land, sinkboxes and sneak boats; a three-shell limit is placed on auto-loading and repeating shotguns and no shotgun larger than 10-gauge can be used. Migratory waterfowl can be hunted only during the open season and between the hours of 7 a. m. and 4 p. m., Standard Time. Duck hunters are again required to have a federal "duck stamp" affixed to their state hunting license.

#### GRAIN BAITING PROHIBITED

No duck club or individual can lawfully feed or bait on any part of their shooting property or adjoining property where as the ultimate object is to attract migratory waterfowl for shooting purposes.

It is permissible to shoot wild waterfewl that are enticed by growing foods, that have been planted as long as the matured foods are not beaten off the stems or from its pods by human agency but merely falls to the ground naturally. There is nothing in the regulations that forbid the shooting of migratory waterfowl attracted by growing plants. Of course in the case grains are used as long as the grain remains as grain migratory waterfowl could not be lawfully shot at the place. Grains are designated as corn, wheat, oats or other grain products.

The regulations distinctly prohibit the farmer from putting out feed for wild ducks or geese on his farm if he or anyone intends to shoot there

or in that vicinity.

It is not permissible to bait on one of ten or more lakes within a radius of several miles as long as the object is to attract wild waterfowl to the vicinity where shooting is to take place. Therefore, it is illegal to place bait for migratory waterfowl in a rest pond even though no shooting is permitted on

the ponds being fed.

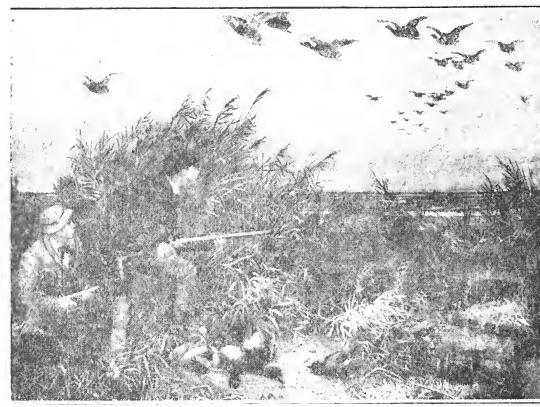
If ponds contain a growth of natural foods of the aquatic species and no bait is placed there it is permissible to shoot over these ponds. It is highly recommended that aquatic food plants be established in all waters for they provide food during the shooting season and throughout the rest of the year providing the necessary feeding and breeding grounds for these birds while migrating or otherwise. Natural Wild Duck Foods can be lawfully planted on or about your shooting grounds.

#### HOW TO GET MORE DUCKS

If Jack Miner, with nothing but a brick yard pond, a few live decoys, plenty of food and a lot of perseverance can bring thousands of geese from all points of the compass, surely many states can materially increase the waterfowl supply within their boundaries.

Because a state is not in the beaten path of the large regular waterfowl flyways is no excuse for hesitancy. Mr. Miner's experience shows that the ducks and geese will go many miles out of their way to get a good meal at a cafeteria that is properly safeguarded against intruders.

Many States have been planting duck foods in suitable waters, and I am informed the results have been good in many places. If the duck hunters want more of this work done they must not only make their wants known, but they must also get busy and do a lot of duck food planting, lake building, creating refuges, etc.



You Can Enjoy This Sport

#### FACTS ABOUT DUCK MARSHES

There are millions of acres in this country that have been drained to make farming lands. Much of it would be worth more today if in its original state. There is more money in one hundred acres of good duck marsh than there is in an equal acreage of corn. The duck marsh properly handled will exceed the profit of the average farm land.

To attract wild fowl to your marsh lands you must take means to conserve a sufficient amount of water, plant the food on which they thrive, provide suitable cover and protect them from their natural enemies. This will attract the birds and you can hold them if the food holds out and you do not shoot too heavily. The investments that are made in this direction will be well repaid.

### WISCONSIN AQUATIC NURSERIES,

#### NECESSITY OF AQUATIC VEGETATION FOR FISH

Many of the plants which are important food plants for waterfowl are also important food and cover plants for fish. Therefore, one will improve both hunting and fishing by establishing a growth

of aquatic vegetation in their waters.

Plant life takes a very important part in the purification of waters by taking up the poisonous gases and sending forth oxygen into the waters which is essential to fish life. These plants also support countless numbers of minute animal life upon which the young fry feed. They also provide excellent shelter and hiding places for younger fish to hide and escape the larger ones which are of a cannibalistic nature, feeding upon one another.

Aquatic vegetation assists in the clarification of

the waters and shades the under waters keeping them cool which is very helpful and healthful to

the fish life.

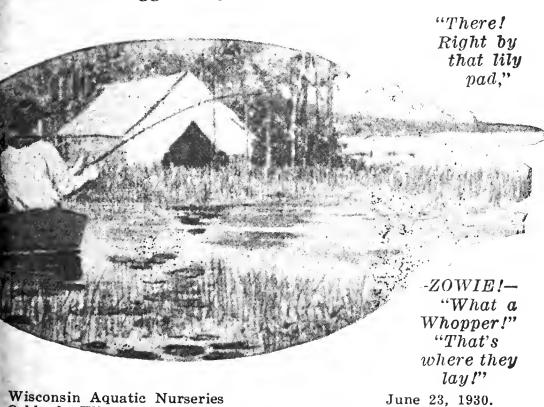
In order that there be a plentiful supply of fish in any waters it is first necessary to protect the small fry. They cannot feed upon the larger insect life or upon one another as the larger fish do and as a result in waters barren of aquatic vegetation millions of the small fish perish.

#### SUNLIGHT FOUND HARMFUL TO FISH AND FISH EGGS

-Courtesy Alabama Sportsman.

As a result of experiments at its Holden, Va., hatchery, the Bureau of Fisheries, Department of Commerce, has found that exposure to sunlight is detrimental to eggs, fry and fingerlings.

The experiments, it was stated orally on November 4, were designed to determine whether the remarkable curative results ascribed to ultra-violet rays and sunlight were actual. The bureau found that the doubts of fish culturists on this score were well founded, continuous exposure to direct sunlight being found as not only of no benefit but definitely harmful to eggs and young fish.



Wisconsin Aquatic Nurseries Oshkosh, Wis.

Gentlemen: Just received last order today, ordered by Mr.
Walker. It arrived in good shape. The stuff I got before is
coming along very nicely.

Signed: Yours very truly,
PERCY D. GASKILL, D.D.S.
Lancaster Inn, Lancaster, Calif.

[Paye 23]

### Information for the Muskrat Farmer



Man has been engaged in the trapping of furbearing animals since the early ages. The women of the stone age wore furs as clothing, the modern women wear furs, not alone because of the warmth, but for the beauty and their personal adornment. Trappers, spurred by high prices, have ruthlessly de-

The drainage and reclamapleted the wild supply. tion of swamp lands have destroyed the breeding grounds of millions of muskrats. So, if we are to have a dependable supply of fur, they must be raised. Statistics compiled by Frank G. Ashbrock of the U.S. Biological Survey, show that the muskrat is the most important of all fur bearers. More than fifty per cent of all fur used today is muskrat. His glossy pelt is not only used in its natural state, but when dyed is sold as Hudson seal, river mink, southern beaver, neutria, otter, sable and many other popular furs. For the past few years the demand for muskrat pelts has exceeded the supply by from fifteen to twenty million pelts. The result of this demand has prompted the commercial raising of this little fur bearer, by some of our largest manufacturing furriers and far-sighted individuals. Muskrat farming is a business, the same as banking, manufacturing or mining. It is as practical as the raising of sheep, cattle or hogs, the difference being

that it is ten times as profitable.

To successfully raise muskrats one must have a spring-fed marshy swamp with an outlet which can be dammed, so that a uniform water level may be maintained. The depth of the water and musk, or floating bog, must be sufficient so that it will not freeze to the bottom in the most severe Winter, the result of which would be cutting off of the food supply and the starvation of the animals, unless artificially fed. The swamp lands must abound in the natural foods of the muskrat, such as cat-tails, bulrushes, duck millet, three-blade grass, wild rice, wapato and wild celery. The location must also have high, dry ground surrounding the swamp on which fences are built. Proper fencing is of importance. A crop of root vegetables, such as carrots, parsnips and sugar beets, should be planted, stored in root cellars and fed during the Winter months, by using feeding houses. On ranches where the muskrats are in the habit of using the feeding houses, the rancher has the opportunity of scientifically feeding during the breeding season, which results in a larger number of young litters. Another decided advantage of feeding houses is the ability to easily catch the animals. Trap doors are over the entrances; by closing them when one wishes to make a catch the muskrat cannot escape. This enables the rancher to market only prime pelts, which command the highest prices.

If a muskrat farm is ideally located, properly fenced and well planted with natural foods, it is bound to be a money-maker. It is a never-failing crop, unaffected by hot, cold, wet or dry weather.

Muskrats are hardy and immune from diseases. They multiply rapidly, being the most prolific of fur bearers. From actual observation one female produced thirty-three young in one breeding season. An interesting experiment has recently been concluded in Manitoba. A pair of muskrats were put into a pen and in nine months they and their progeny increased to the astounding total of 138.

It has conclusively been proved that the young female born in the Spring will produce the same Fall. We have had increases of a second litter in the Fall from a female born in the Spring; this, however, is unusual. The next Spring she has the

average litter, which is eight or ten young.

Canada Guides Limited 606-607 Shaughnessy Bldg., Montreal, Que., Canada

January 28, 1933.

Wisconsin Aquatic Nurseries Oshkosh, Wis. Gentlemen:

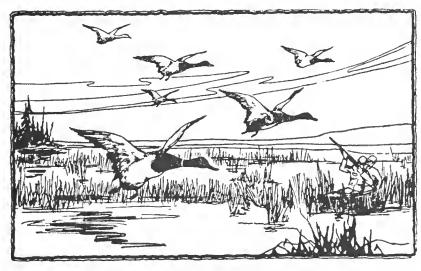
Enclosed please find my order for materials amounting to \$50.00. I forgot to mention in my last letter, but would like to say now, that the seed which we got from you in the Fall of 1931 and planted on our Hog Island property did very well indeed. We had a small fresh water creek in which we planted the wild rice and we were both surprised and pleased at the remarkable results obtained. All the other seeds did excellently.

Thanking you for past favors and trusting to receive copy

of order with planting instructions, I am

Sincerely yours,

Signed: ROBERT McCOMBE.



THE FIRST NATIONAL BANK, Huntsville, Texas, Feb. 15,

Wisconsin Aquatic Nurseries Oshkosh, Wis.

Two years ago we bought some Wild Rice Seed from you for our lake. It grew fine and we had a very nice stand. However, a few months later, a water spout broke our poorly constructed dam and we lost it. We now have it in good shape for standing severe strain and have concluded to plant some more Rice.

Kindly send me 25 pounds Wild Rice Seed for planting in

our lake.

Yours truly, Signed:

G. A. WYNEE, Vice-Pres.

Oct. 7, 1927.

Wis. Aquatic Nurseries, Oshkosh, Wis.

Dear Sirs:

The Wild Rice Seed I got from your Company last fall is doing fine. I will send you another order a little later, as soon as I have made the necessary arrangements.

Yours truly,

W. C. WALLACE,

Fred N. H. Errol, N. H.

#### WHAT CONSTITUTES A GOOD GAME REFUGE



It is a common error that national, state and municipal forests are per se good game refuges. President John B. Burnham of the American Game Protective Association points out, that this is not necessarily true. In order to serve any good purpose as game refuges forests must be attractive to wild animal and bird life. They must contain food as well as shelter.

The tendency in management of public forests is to plant and promote the growth only of such trees as will in time make merchantable timber, with no thought of such other free growth, shrubbery and other plant life as is necessary to an attractive home for birds and animals.

Game cannot live without food. "The reason," says Mr. Burnham, "why many game refuges are absolutely worthless (aside from the question of vermin control) is that, to put it figuratively, they provide only a safe house, with no kitchen and no order in the grocery store. You cannot expect wild animals and birds to flock to foodless refuges just because they are planted with commercially attractive trees. Of the conifers, hemlock, white cedar and balsam, when small, furnish food for deer and hares in the Winter season. Pine has

practically no food value and spruce none whatever. In summer even deer and rab-bits will find nothing they can eat in a typically planted forest."

Mr. Burnham points out that for every

coniferous tree planted there should be a number of deciduous trees-including fruit and nutbearing trees. Game wants sunlight, too, and plenty So openings and gaps in the forest must be left which will encourage undergrowth. At least half of the forest area should be left unoccupied by, commercial trees if it is to be a good game refuge.

Quoting again from Mr. Burnham: "We should let Mother Nature have something to say as to what happens on this 50 per cent of so-called wasteland. There is nothing more valuable for our primary object than weeds and berry briars, sumachs, wild apples and grapes, barberries and thorn apples, and where Nature leaves the ground bare give her the benefit of the doubt and believe that she may know something after all. Partridges need places to dust and wild grasses and plants are important in the game's dietary. Some refuges should have no forest at all. We must not forget the wild grass swamps for pheasants.

# Order Blank

# WISCONSIN AQUATIC NURSERIES

P. O. Box 331 Oshkosh, Wisconsin, U. S. A.

Ship to	, 1990	
Address		
Address		
Express Parcel Post-		
Please Ship onDate		
Quantity Material	Price	
Lb. Giant Wild Rice Seed		
Wild Celery Tubers		
Sago Pondweed Tubers		
Wampee Plants or Seeds		
Wapato Duck Potato Tube	ers	
Lb. Wild Duck Millet Seed	1	
Lb. Smartweed Seed		
Bushels Ducksmeat Plants		
Bu. Coontail Plants		
Bu. Elodea Plants		
Bu. Water Milfoil Plants		
Bu. Widgeon Grass Plants		
Bu. Eel Grass Plants		
Spatterdock Plants		
White Waterlily Roots		
Lb. American Lotus Seed		
Lb. Burreed Seed		
Deep Water Duck Potato Th	ors.	
Tot	al	
Less 30% Discou	int	
Amount of Ord	er \$	
Inclose Check \$ Express (	C.O.D	
Order By Sign Name Here		
Address		

### **TERMS**

Prices listed herein effective January 1st, 1938, this list cancels all previous lists and quotations. These prices are F. O. B. Oshkosh, or other shipping points unless otherwise stated and subject to change without notice.

30% discount off prices listed on all orders placed before May first. 2% additional discount if payment accompanies order.

We urge you to order early and be sure of your supply. Cash or satisfactory reference with order, if purchaser has no credit established with us. Shipments will be sent C. O. D. if so desired.

Accounts not paid when due are subject to sight draft also interest charged at the rate of 8% per cent per annum.

These aquatic seeds and other planting materials are perishable and must reach their destination in the shortest possible time and should be shipped by express. If you wish shipment by Parcel Post or Prepaid Express please send sufficient money to cover same otherwise we will ship charges collect.

Freight shipments can be made on dry seeds, shrubs and trees as listed. Wild Duck Millet, Smartweed, Chufa, Duck Wheat, Milo Maize and all items listed on page 19 under trees, shrubs and vines.

For our reference write New American Bank, Oshkosh, Wis.; Department of Conservation, Harrisburg, Pa.; American Fisheries Society, Washington, D. C.; American Wildlife Institute, Washington, D. C.; I. T. Quinn, Commissioner of Conservation, Montgomery, Ala.; Kenneth N. Kunkel, Commissioner of Conservation, Indianapolis, Ind.; any outdoor sportsmen's magazine such as Field and Stream, Outdoor Life, Sports Afield, etc.

### **GUARANTEE**

We guarantee our seeds, roots, tubers and other nursery stock to grow and produce satisfactory results. If a complete planting or any portion fails to produce what you consider a satisfactory growth after allowing a sufficient time to grow and mature, we will agree to furnish an equal quantity to that which fails at one-half the list price.

You are the judge as to whether or not your planting has proven a success. If dissatisfied with the results, tell us about it and we will replace the order at half-price, or an equal value of any other planting materials you wish to select from our list at one-half list price.

Failures with good germinating seed and hardy plants, tubers, shrubs, etc., such as we supply are few and far between. Marsh and water plants are very hardy and sure to grow.

Complete Planting Instructions Sent with Each Order.

WISCONSIN AQUATIC NURSERIES (Box 331)
OSHKOSH, WIS., U. S. A.

PROFESSIONAL SERVICE

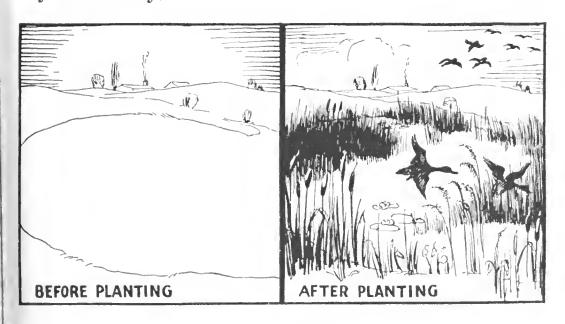
### We Plan --- Plant and Make Attractive Your Marshes— Ponds or Streams

The best method of procedure in developing an attractive feeding ground for either waterfowl, fish, or game is to employ the services of our specialist to come and make a personal examination of the property and supervise the planting thereof. Where Leagues or Associations plan to develop several lakes or properties, Clubs or private individuals controlling large areas wish to make plantings to the extent of \$300 or more we recommend this service for best and quickest results.

Perhaps you now have some natural foods growing in your waters or about the shores unbeknown to you, this service will eliminate the danger of duplicating in planting. It will insure the planting of the proper plants adapted to those particular water or soil conditions. Experimental planting on a large scale is often very costly. One experienced in planting these materials can often make the same quantity cover twice the area, with better results than the inexperienced. Proper planting is very important, it is the hinge upon which good results hang.

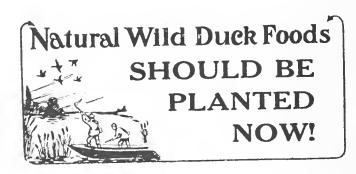
By having this service you will learn what grows there, its value, what we recommend planting, quantity, price and where as well as when to plant. During spring we are able to make investigations of properties and waters and supervise the planting work in one trip by telegraphing for materials after survey is completed and awaiting their express arrival. We often have several such contracts in a community and work from one preserve to another.

Our charge for this service is \$10 per day plus all hotel bills and traveling expenses incurred in making the trip to the property and return. When we are able to obtain several contracts in one state it enables us to quote a special low price, making this service very inexpensive. Write us for quotation on this service, we may have an expert in your vicinity.



# QUALITY---SERVICE EXPERIENCE

Our materials are the best obtainable and are all guaranteed. Many of our customers say, "The prompt service the WISCONSIN AQUATIC NURSERIES give, their knowledge of Aquatic Foods derived through actual experience from inspecting and planting of private and public Hunting and Fishing Grounds and the Quality of materials that they supply can't be equalled by any firm in this kind of business."



# IF YOU WANT MORE WILD DUCKS, FISH AND OTHER GAME PLANT NOW.

Natural Foods are the secret of attracting large numbers of Waterfowl, fish or game and holding them over an extended period. Make a liberal planting. You can have thousands of Wild Ducks come to your property to every ten that come there now by providing their favorite foods. These aquatics reseed themselves and become a permanent attraction. The first cost is the only cost.

#### ORDER EARLY

The Spring planting season will soon be here and over and we want to urge you to place your order soon. It may be necessary to disappoint many late customers again this year on account of shortage of materials. MATERIALS PLANTED THIS SPRING PRODUCE RESULTS THIS FALL, READY TO ATTRACT THE WILD DUCKS AND OTHER GAME.

## Large Game Preserve For Sale

New Hope Plantation; Winter Home, An Ideal Duck Preserve and Plantation. Location, Southeast Georgia, 66 miles South of Savannah, 12 miles north of Brunswick. Consists of 211 acres of high, dry, well drained land. Duck Preserve consists of slightly more than 450 acres. If interested write us, or Ed. T. Cole, our agent, Oshkosh, Wis., for further information.

## WISCONSIN AQUATIC NURSERIES

P. O. BOX 331 OSHKOSH, WISCONSIN, U. S. A.